

## United States of America

### DRAFT PROPOSAL FOR THE WORK OF THE CONFERENCE<sup>1</sup>

**Agenda Item 1.11:** *to review sharing criteria and regulatory provisions for protection of terrestrial services in particular terrestrial television broadcasting services, in the band 620 – 790 MHz from BSS networks and systems, in accordance with Resolution 545 (WRC-03)*

#### **Background:**

Under footnote No. **5.311**, the band 620-790 MHz may be used for assignments to television stations using frequency modulation in the BSS (GSO or non-GSO). Since this band is extensively used by terrestrial applications, Recommendation **705 (WARC-79)** includes, among other things, satellite pfd limits needed to protect the terrestrial services, in particular, the terrestrial television broadcasting service that uses this band extensively in all three Regions.. It should also be noted that there are allocations to the fixed and mobile services in some regions in this band that also need to be addressed. In particular, some Region 2 administrations added their names to footnote No. **5.293** which allocates the band to the fixed and mobile services on a primary basis in several Region 2 countries.

In Region 2 the 620-790 MHz band is used extensively by free-to-air TV systems. As a result of this extensive use of the 620-790MHz band, Region 2 Administrations have not made allowances for external interference in the deployment of their terrestrial TV systems or in the development of their TV allotment plans or in the development of other fixed and mobile services and therefore, there are no excess margins which could have been used to accommodate additional interference from systems in the BSS.

WRC-03 adopted a freeze on the processing of BSS satellite filings in the band until the next WRC as per a new Resolution **545 (WRC-03)** and suspended the application of No. **5.311** and Recommendation **705 (WARC-79)** until that date. The Resolution was acceptable to all parties with the understanding:

- 1) it allows for studies to continue on the appropriate protection levels for the terrestrial broadcasting service (BS) to be determined;
- 2) it does not impact the Regional Planning Conference (RRC-06 and Region 2 is not affected) for these services;
- 3) it places a moratorium on further deployments of BSS networks in these bands until such studies are complete.

This proposal suppresses **No. 5.311** and Res. **545** to ensure the complete protection of the current and future usage of the broadcast, mobile, and fixed services in the 620-790 MHz band from interference from new broadcast satellite operations in this same band. In addition, the proposal adopts a new Resolution that would address grandfathering of the existing Russian BSS networks operating in the band. This proposal suppresses the BSS allocation and only allows the grandfathered networks to continue to operate. This proposal aligns with the Method B to resolve this agenda item in the Draft CPM Report to WRC-07.

As a consequence, Rec. **705**, “Criteria to be applied for frequency sharing between the broadcasting-satellite service and the terrestrial broadcasting service in the band 620-790 MHz”, is deleted.

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<sup>1</sup> This is a revision to an earlier United States’ proposal on agenda item 1.11.

**Proposals:**

**USA// 1 SUP 5.311**

**5.311** Within the frequency band 620-790 MHz, assignments may be made to television stations using frequency modulation in the broadcasting-satellite service subject to agreement between the administrations concerned and those having services, operating in accordance with the Table, which may be affected (see Resolutions **33 (Rev.WRC-03)** and **507 (Rev.WRC-03)**). Such stations shall not produce a power flux-density in excess of the value  $-129 \text{ dB(W/m}^2\text{)}$  for angles of arrival less than  $20^\circ$  (see Recommendation **705**) within the territories of other countries without the consent of the administrations of those countries. Resolution **545 (WRC-03)** applies. (WRC-03)

**Reasons:** Operators of TV broadcasting services not allocated any additional interference margins for the protection of terrestrial TV broadcasting and therefore any additional interference from BSS will place undue constraints on the existing and planned services TV broadcast services.

**USA// 2 SUP Recommendation 705**

**RECOMMENDATION 705**

**Criteria to be applied for frequency sharing between the  
broadcasting-satellite service and the terrestrial broadcasting  
service in the band 620-790 MHz**

**Reasons:** Because the allocation to BSS is suppressed under this proposal, there is no need for Recommendation 705 to be maintained.

**USA// 3 ADD Resolution [620-790MHz]**

**Draft Resolution [620-790MHz]**

**Use of frequency band 620-790 MHz for existing assignments to broadcasting-satellite  
service**

The World Radiocommunication Conference 2007 (WRC-07)

*considering*

- a) that Regional Radiocommunication Conference ,Geneva 2006 ( RRC-06) has adopted an Agreement and associated Plans for digital terrestrial broadcasting for Region 1, except Mongolia, and the Islamic Republic of Iran in the frequency bands 174-230 MHz and 470-862 MHz,
- b) that the above-mentioned Conference, in its Resolution 1 (**RRC-06**) invited WRC-07 ,when considering Agenda Item 1.11, ensure that the Plan ( s) established shall be effectively protected , *inter alia*, from the BSS GSO and non-GSO broadcasting satellite networks/systems operating or to planned be operated in frequency band 620-790 MHz.
- c) that many administrations have extensive infrastructure for the transmission and reception of analogue and digital television signals between 620 MHz and 790 MHz;
- d) that, as a result of the transition from analog to digital terrestrial television broadcasting, some countries are making the band 698-806 MHz available for applications in the mobile service;

*recognizing*

- a) that in accordance with provision No. **5.311**, adopted at a previous WARC several decades ago, two assignments to “Stationar t” and “Stationar t2 BSS networks in the band 620-790 were notified, brought into use and the their date of bringing into use confirmed before the end of the World Radiocommunication Conference (Geneva, 2003) (WRC-03),
- b) that, according to the records of the Bureau, there has been no complaint of any harmful interference to or request for claiming protection for these two assignments from the terrestrial television systems of any administration

*further recognizing*

- a) that there is a need to authorize these two assignments to continue their operation in providing the broadcasting satellite service to their defined service area
- b) that this Conference has suppressed the provision No. **5.311**, in the light of the protection requirements of the terrestrial television systems and other terrestrial systems mentioned in the *considerings* above

*resolves*

that the frequency assignments of the Stationar t” and “Stationar t2” BSS networks, within the frequency band 620 – 790 MHz, shall be recorded in the Master Register with favorable finding.

*instructs the Director of the Radiocommunication Bureau*

to implement this Resolution.

**Reasons:** Recognizes the needs of the existing BSS systems using the band, this proposed Resolution allows them to continue operating.

**USA/ / 4 SUP Resolution 545**

**RESOLUTION 545 (WRC-03)**

**Technical and regulatory procedure relating to the broadcasting-satellite service networks operating in the 620-790 MHz band**

**Reasons:** Because the allocation to BSS is suppressed under this proposal, there is no need for Resolution 545 to be maintained.